

CALCOCO2 Rabbit Polyclonal Antibody

CALCOCO2 Rabbit Polyclonal Antibody

Catalog # AP93440

Product Information

Application	WB
Primary Accession	Q13137
Reactivity	Human, Mouse, Rat
Host	Polyclonal, Rabbit, IgG
Clonality	Polyclonal
Calculated MW	52254

Additional Information

Gene ID	10241
Other Names	Calcium-binding and coiled-coil domain-containing protein 2, Antigen nuclear dot 52 kDa protein, Nuclear domain 10 protein NDP52, Nuclear domain 10 protein 52, Nuclear dot protein 52, CALCOCO2, NDP52 {ECO:0000303 PubMed:7540613}
Dilution	WB~~1:1000
Storage Conditions	-20°C

Protein Information

Name	CALCOCO2
Synonyms	NDP52 {ECO:0000303 PubMed:7540613}
Function	Xenophagy-specific receptor required for autophagy-mediated intracellular bacteria degradation. Acts as an effector protein of galectin-sensed membrane damage that restricts the proliferation of infecting pathogens such as <i>Salmonella typhimurium</i> upon entry into the cytosol by targeting LGALS8-associated bacteria for autophagy (PubMed: 22246324). Initially orchestrates bacteria targeting to autophagosomes and subsequently ensures pathogen degradation by regulating pathogen-containing autophagosome maturation (PubMed: 23022382 , PubMed: 25771791). Bacteria targeting to autophagosomes relies on its interaction with MAP1LC3A, MAP1LC3B and/or GABARAPL2, whereas regulation of pathogen-containing autophagosome maturation requires the interaction with MAP3LC3C (PubMed: 23022382 , PubMed: 25771791). May play a role in ruffle formation and actin cytoskeleton organization and seems to negatively regulate constitutive secretion (PubMed: 17635994).
Cellular Location	Cytoplasm, perinuclear region. Cytoplasm, cytoskeleton. Cytoplasmic vesicle,

autophagosome membrane; Peripheral membrane protein. Note=According to PubMed:7540613, localizes to nuclear dots. According to PubMed:9230084 and PubMed:12869526, it is not a nuclear dot-associated protein but localizes predominantly in the cytoplasm with a coarse-grained distribution preferentially close to the nucleus.

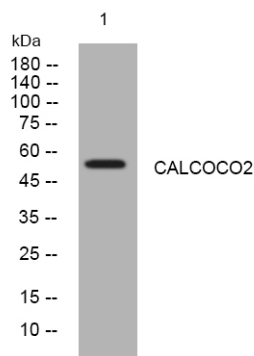
Tissue Location

Expressed in all tissues tested with highest expression in skeletal muscle and lowest in brain

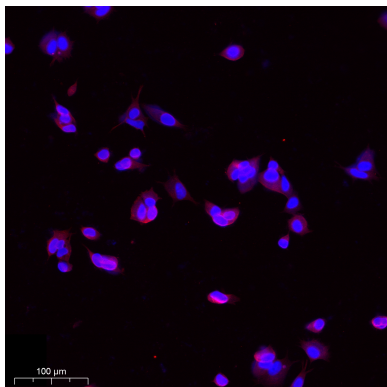
Background

This gene encodes a coiled-coil domain-containing protein. The encoded protein functions as a receptor for ubiquitin-coated bacteria and plays an important role in innate immunity by mediating macroautophagy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012],

Images



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4° over night



Immunofluorescence analysis of MCF7 cell. 1, primary Antibody was diluted at 1:100(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFuor 594 Secondary antibody was diluted at 1:500(room temperature, 50min).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.